

# Kristen Swedberg

(she/her)

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## EDUCATION

Ph.D., Virginia Tech <i>Economics</i> Advisor: Kevin Boyle Dissertation: Essays in Surface Water Quality Valuation	2024
M.S., Virginia Tech <i>Agricultural and Applied Economics</i> Advisor: Kevin Boyle Thesis: Examining Implicit Price Variation for Lake Water Quality	2020
B.S., Virginia Tech <i>Engineering Science and Mechanics; Sociology</i> Minors: Green Engineering; Peace Studies and Violence Prevention	2017

## RESEARCH EXPERIENCE

PRODiG+ Postdoctoral Fellow in Sustainability and Public Policy Department of Public Administration and Policy, Binghamton University	2025 – Present
ORISE Research Fellow mentored by Joel Corona U.S. EPA Office of Water, Water Economics Center	2022 – 2025
Graduate Research Assistant for Kevin Boyle Department of Agricultural and Applied Economics, Virginia Tech	2018 – 2022
Lab and Research Specialist Virginia Tech Transportation Institute	2017 – 2018

## TEACHING EXPERIENCE

Instructor of Record “Sustainable Communities: Policy and Practice” 4 credits, 21 students Department of Public Administration and Policy, Binghamton University	Spring 2026
Instructor of Record “Quantitative Methods II” 4 credits, 7 students College of Community and Public Affairs, Binghamton University	Spring 2026
Instructor of Record “Research Design and Methods” 4 credits, 20 students Department of Public Administration and Policy, Binghamton University	Fall 2025
Instructor of Record “Real Estate Data Analysis” 3 credits, 24 students Program in Real Estate, Virginia Tech	Spring 2019
Teaching Assistant “Real Estate Data Analysis” 2 credits, 27 students Program in Real Estate, Virginia Tech	Fall 2018
Grader “Environmental Life Cycle Analysis” 3 credits, 186 students Department of Material Science Engineering, Virginia Tech	Spring 2017

## MENTORING EXPERIENCE

Graduate Research Mentor 2025 – Present  
College of Community and Public Affairs, Binghamton University

Undergraduate Research Mentor 2019 – 2020  
Program in Real Estate, Virginia Tech

## PEER-REVIEWED PUBLICATIONS

Phillips, M., Boyle, K. J., & Swedberg, K. (2025). Valuation of forested river riparian buffers: Support for riverine integrity and climate resilience. *Forest Policy and Economics*. doi:10.1016/j.forpol.2024.103406

Swedberg, K., Cardoso, D., Castillo, A., Mamun, S., Boyle, K., Nolte, C., Papenfus, M., Polasky, S. (2024). Spatial Heterogeneity in Hedonic Price Effects for Lake Water Quality. *Land Economics*. doi:10.3368/le.100.1.102122-0086R

Nolte, C., Boyle, K. J., Chaudhry, A. M., Clapp, C., Guignet, D., Hennighausen, H., Kushner, I., Liao, Y., Liao, Y., and Mamun, S., Pollack, A., Richardson, J., Sundquist, S., Swedberg, K., Uhl, J. (2024). Data Practices for Studying the Impacts of Environmental Amenities and Hazards with Nationwide Property Data. *Land Economics*. doi:10.3368/le.100.1.102122-0090R

Mamun, S., Castillo, A., Swedberg, K., Zhang, J., Andarge, T., Boyle, K., Keiser, D., Kling, C., Nolte, C., Papenfus, M., Phaneuf, D., Polasky, S. (2023). Valuing water quality in the US using a national data set on property values. *Proceedings of the National Academy of Sciences* doi:10.1073/pnas.2210417120

Swedberg, K., Boyle, K., Stachelek, J., Ward, N. K., Weng, W., Cobourn, K. M. (2022). Examining Implicit Price Variation for Lake Water Quality. *Water Economics and Policy* doi:10.1142/S2382624X22400057

Hansen, O. L., Sheen, A. B., Swedberg, K. M., Vitale, K. W., Wray, S. M., Fox M. D., & Boreyko, J. B. (2018). Thermally Absorptive Blankets for Highly Efficient Snowbank Melting. *Langmuir* doi:10.1021/acs.langmuir.7b0318

## ORAL PRESENTATIONS

2025: “Developing a Use-Based Water Quality Index”, Sustainable Communities Transdisciplinary Area of Excellence Seminar (Vestal, NY)

“Incorporating Multiple Beneficial Uses in Benefits Transfer for Surface Water Quality”, Social Cost of Water Pollution Workshop (Washington, D.C.)

“No Benefits Left Behind: Addressing Extent of Market in Benefit Transfer for Wetland Valuation”, Northeastern Agricultural and Resource Economics Association Conference (Burlington, VT)

2024: “Locally Satisfying Adding Up Condition in Meta-Regression Models: A Simple Solution to a Persistent Regulatory Challenge”, Association of Environmental and Resource Economics Conference (Washington, D.C.)

“Locally Satisfying Adding Up Condition in Meta-Regression Models: A Simple Solution to a Persistent Regulatory Challenge”, U.S. Environmental Protection Agency Office of Water Seminar (virtual)

“Developing a Use-Based Water Quality Index”, Social Cost of Water Pollution Workshop (Washington, D.C.)

“Disentangling Sources of Water Quality Variation in Property Sale Models”, U.S. Environmental Protection Agency Office of Research and Development Seminar (virtual)

“Disentangling Sources of Water Quality Variation in Property Sale Models”, A Community in Ecosystem Services Conference (Austin, TX)

- 2023: "Evaluating the Spatial Extent of Integrated Hedonic Property Sales and Recreation Demand Models for Water Quality in Southern New England", Association of Environmental and Resource Economics Conference (Portland, ME)
- "The Impacts of Model Precision in Integrated Assessment Models for Environmental Policy: An Application in Water Quality Benefits", International Society for Ecological Modelling Conference (Toronto, CAN)
- "Modelling water quality for economic analysis with The Hydrologic and Water Quality System (HAWQS) 2.0", The Workshop in Environmental Economics and Data Science (Portland, OR)
- "The Impacts of Model Precision in Integrated Assessment Models for Environmental Policy: An Application in Water Quality Benefits", Social Cost of Water Pollution Workshop (Washington, D.C.)
- 2022: "Spatial Heterogeneity in Hedonic Price Effects for Lake Water Quality", Social Cost of Water Pollution Workshop (Washington, D.C.)
- "Spatial Heterogeneity in Hedonic Price Effects for Lake Water Quality", ZTRAX Special Issue Workshop (Virtual)
- "Spatial Heterogeneity in Hedonic Price Effects for Lake Water Quality", Virginia Tech AAEC Departmental Seminar (Virtual)
- 2021: "Examining Implicit Price Variation for Lake Water Quality", North American Lake Management Symposia (Virtual)
- "Examining Implicit Price Variation for Lake Water Quality", Social Cost of Water Pollution Workshop (Virtual)
- "Examining Implicit Price Variation for Lake Water Quality", Private-Land Conservation Evidence System Webinar (Virtual)
- "Examining Implicit Price Variation for Lake Water Quality", Virginia Tech AAEC Departmental Seminar (Virtual)

## **WORKING PAPERS**

- Locally Satisfying the Adding Up Condition in Meta-Regression Models: A Simple Solution to a Persistent Regulatory Challenge
- The Impacts of Model Precision in Integrated Assessment Models for Environmental Policy: An Application in Water Quality Benefits
- Disentangling Sources of Water Quality Variation in Property Sale Models *with Nathaniel Merrill, Joel Corona, and Matthew Heberling*
- Evaluating the Spatial Extent of Integrated Hedonic Property Sales and Recreation Demand Models for Water Quality in Southern New England *with Nathaniel Merrill, Joel Corona, and Matthew Heberling*
- No Benefits Left Behind: Addressing Extent of Market in Benefit Transfer for Wetland Valuation *with Ahmed Rachid El-Khattabi, Adam Theising, Todd Doley, and Joel Corona*
- Developing a Use-Based Water Quality Index *with Joel Corona, Ahmed Rachid El-Khattabi, and Baishali Bakshi*

## WORK IN PROGRESS

A Longitudinal Assessment of Public Water System Finances in New York *with Vincent Reitano*

The Impacts of In-Lake Treatments for Phosphorus on Local Housing Markets

Incorporating Multiple Beneficial Uses in Benefits Transfer for Surface Water Quality *with Yakubu Zakaria and Joel Corona*

## PROFESSIONAL MEMBERSHIPS

Northeastern Agricultural and Resource Economics Association (NAREA)	2025 – Present
Association of Environmental and Resource Economics (AERE)	2023 – Present
International Society of Ecological Modelling	2023 – 2025
North American Lake Management Society	2021 – 2023

## SERVICE

NAREA Membership Committee	2026 – Present
Volunteer for Social Cost of Water Pollution Workshop	2023 – 2024

Reviewer for <i>Agricultural and Resource Economics Review</i>	2026
Reviewer for <i>Journal of the American Water Resources Association</i>	2024

Departmental Senator to Graduate and Professional Student Senate	Spring 2022
Vice President of Departmental Graduate Student Association	2021 – 2022
Departmental Representative to Graduate Student Assembly	2019 – 2020
Social Chair of Departmental Graduate Student Association	2019 – 2020

## AWARDS

NAREA Career Advancement and Mentorship Program Mentee	2025 – Present
Oak Ridge Institute for Science and Education (ORISE) Fellowship	2022 – 2025
Paul J. Driscoll Fellowship	2019 – 2021

## SKILLS

*Programming:* Proficient in Python and R, experience with HPC

*Geospatial Analysis:* Proficient in GeoPandas and ArcGIS Pro

*Hydrologic Modelling:* Proficient in HAWQS and SWAT

## ADDITIONAL TRAINING

2022: Contemporary Pedagogy Course, Association of Clean Water Administrators Water Quality Modelling Workshop, Water Standards Academy, National Pollutant Discharge Elimination System Training

2021: Berkeley/Sloan Summer School in Environmental and Energy Economics